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1 A load cluster management system using SNMP and web
Myung-Sup Kim, Mi-Joung Choi, James W. Hong
November 2002 **International Journal of Network Management**, Volume 12 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(355.47 KB) Additional Information: full citation, abstract, references, index terms

Clustered servers for Internet service is a popular solution to cope with the explosive increase in client requests. The high probability of service failure in cluster servers make the cluster management system necessary to provide high availability and convenient administrator control. In this paper, we present the design and implementation of a load cluster management system (LCMS) based on SNMP and Web technology. Our LCMS implementation has been deployed on a commercial ultra-dense server.

2 Web-accessible network management tools
Nathan J. Muller
September 1997 **International Journal of Network Management**, Volume 7 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(298.85 KB) Additional Information: full citation, abstract, index terms

Web-based delivery of management information is becoming a key strategic element in corporate development. This article evaluates various proprietory web-based management tools, in light of recently proposed industry standards © 1997 John WileWiley & Sons, Ltd.

3 SNMP through WWW
Ching-Wun 'Bo' Tsai, Ruay-Shiung 'Bo' Chang
March 1998 **International Journal of Network Management**, Volume 8 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(376.25 KB) Additional Information: full citation, abstract, references, citings, index terms

In this article we propose a bilingual agent to accept either SNMP or HTTP commands and design several HTML pages to facilitate the task of network management. For network elements that support only SNMP, the bilingual agent can act as a proxy, so that the traditional SNMP agent can also be queried through the Web browser. © 1998 John Wiley & Sons, Ltd.

4 Management of mobile devices and resources: A remote personal device

management framework based on SyncML DM specifications
Hailiang Mei, Johan Lukkien
May 2005 **Proceedings of the 6th international conference on Mobile data management MDM '05**
Publisher: ACM Press
Full text available: pdf(335.13 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a new design of the remote device management (RDM) framework, which is suited to personal devices. Once this Remote Personal Device Management (RPDM) framework is enabled, parties like manufacturing companies, service providers, and consumers can immediately benefit from gaining access to critical information about the operational status, maintenance functionalities and potential security issues of these devices.We give an overview and comparison of existing remote managemen ...

Keywords: RPDM, SyncML DM, access control, privacy, remote device management, security

5 SNMP for home automation
Ran Giladi
July 2004 **International Journal of Network Management**, Volume 14 Issue 4
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(177.81 KB) Additional Information: full citation, abstract, references, index terms

Home and building automation applications impose the need for convergence, or at least interoperability, of data networks with intelligent building networks. This situation entails the use of a unified management system. In this paper we extend the traditional SNMP-based network management system paradigm by creating an integrated site network management system that contains data elements, telecommunication equipment and intelligent building devices. A possible architecture based on a proxy gate ...

6 Object lessons learned from a distributed system for remote building monitoring and operation
Frank Olken, Hans-Arno Jacobsen, Chuck McParland, Mary Ann Piette, Mary F. Anderson
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10
Publisher: ACM Press
Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe our experiences with the design, the deployment, and the initial operation of a distributed system for the remote monitoring and operation of multiple heterogeneous commercial buildings across the Internet from a single control center. Such systems can significantly reduce building energy usage.Our system is distinguished by its ability to interface to multiple heterogeneous legacy building Energy Management Control Systems (EMCSs), its use of the Common Object Request ...

7 Development of SNMP-XML translator and gateway for XML-based integrated network management
Jeong-Hyuk Yoon, Hong-Taek Ju, James W. Hong
July 2003 **International Journal of Network Management**, Volume 13 Issue 4
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(251.82 KB) Additional Information: full citation, abstract, references, citings, index terms

The research objective of our work is to develop a SNMP MIB to XML translation algorithm

and to implement an SNMP-XML gateway using this algorithm. The gateway is used to transfer management information between an XML-based manager and SNMP-based agents. SNMP is widely used for Internet management, but SNMP is insufficient to manage continuously expanding networks because of constraints in scalability and efficiency. XML based network management architectures are newly proposed as alternatives t ...

8 An efficient and lightweight embedded Web server for Web-based network element management

Hong-Taek Ju, Mi-Joung Choi, James W. Hong

September 2000 **International Journal of Network Management**, Volume 10 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(428.26 KB) Additional Information: full citation, abstract, references, index terms

An Embedded Web Server (EWS) is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web‐based management user interface, which are user‐friendly, inexpensive, cross‐platform, and network‐ready. This article explores the topic of an efficient and lightweight embedded Web server for Web‐based netw ...

9 XBGP-MAN: an XML management architecture for BGP

V. Cridlig, H. Abdelnur, R. State, O. Festor

July 2006 **International Journal of Network Management**, Volume 16 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(629.30 KB) Additional Information: full citation, abstract, references, index terms

Network and system management paradigms have recently evolved towards flexible and lightweight integration approaches. These approaches are based on the transparent information-processing capabilities offered by both generous support for self-describing data enabled by XML as well as from the large base of existing underlying tools. BGP is, from a configuration point of view, one of the most complex protocols of the Internet and as such a very good validation environment for new management frame ...

10 Long papers: Real-time collaborative network monitoring and control using 3D game engines for representation and interaction

Warren Harrop, Grenville Armitage

November 2006 **Proceedings of the 3rd international workshop on Visualization for computer security VizSEC '06**

Publisher: ACM Press

Full text available: pdf(952.68 KB) Additional Information: full citation, abstract, references, index terms

Identifying and reacting to malicious or anomalous IP traffic is a significant challenge for network operators. Automated real-time responses have been simplistic and require followup actions by technically specialised employees. We describe a system where off-the-shelf 3D game-engine technology enables collaborative network control through familiar "interaction" metaphors by translating network events into visually-orthogonal "activities". Anomalous behaviour is targeted by the managers-as-play ...

Keywords: enterprise networks, network control, network visualisation

11 Security: Enhancing the security of corporate Wi-Fi networks using DAIR

Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Manpreet Singh, Alec Wolman, Brian Zill

June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**
Publisher: ACM Press
Full text available: pdf(302.26 KB) Additional Information: full citation, abstract, references, index terms

We present a framework for monitoring enterprise wireless networks using desktop infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting rogue wireless devices (e.g., access points) attached to corporate networks, as well as for detecting Denial of Service attacks on Wi-Fi networks.Prior proposals in this area include monitoring the network via a combination of access points (APs), m ...

Keywords: 802.11, denial-of-service, rogue AP, security, wireless networks

12 Wireless broadband services and network management system in KT
Dong-Hyun Lee, Hwan-Joong Lee, Young-Woo Lee, Dong-Houn Shin
November 2006 **International Journal of Network Management**, Volume 16 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(778.41 KB) Additional Information: full citation, abstract, references, index terms

As mobile devices such as laptops and PDAs are becoming widely available, customers' needs for portable Internet services are increasing. KT has been preparing to launch a WiBro (Mobile WiMax) service that is a high-speed, low-cost, wireless Internet service based on the IEEE 802.16e standard. WiBro Network Management System (WiBro-NMS) has also been developed for the integrated management of WiBro network elements such as ACR, L2 switch, RAS and repeater. Because there is no standard management ...

13 Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis
Marco Gruteser, Dirk Grunwald
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, index terms

The recent proliferation of wireless local area networks (WLAN) has introduced new location privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each client, allowing tracking of location over time. We enhance location privacy through frequent disposal of a client's interface identifier. While not preventing triangulation per se, it protects against an adversary following a user's movements over ...

Keywords: location privacy, wireless LAN

14 Stateful distributed interposition
John Reumann, Kang G. Shin
February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(833.84 KB) Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

15 Deployment and testbeds: Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis

Marco Gruteser, Dirk Grunwald

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(410.84 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent proliferation of wireless local area networks (WLAN) has introduced new *location* privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each client, allowing tracking of location over time. We enhance location privacy through frequent disposal of a client's interface identifier. The described system curbs the adversary's ability to continuously track a client's position. Design ch ...

Keywords: interface identifiers, location privacy, wireless LAN

16 Smart packets: applying active networks to network management

Beverly Schwartz, Alden W. Jackson, W. Timothy Strayer, Wenyi Zhou, R. Dennis Rockwell, Craig Partridge

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(190.33 KB) Additional Information: full citation, abstract, references, citings, index terms

This article introduces Smart Packets and describes the smart Packets architecture, the packet formats, the language and its design goals, and security considerations. Smart Packets is an Active Networks project focusing on applying active networks technology to network management and monitoring. Messages in active networks are programs that are executed at nodes on the path to one or more target hosts. Smart Packets programs are written in a tightly encoded, safe language specifically des ...

Keywords: active networks

17 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

19 Why web-based network monitoring? Leveraging the platform

Ron D. Jenkins

May 1999 **International Journal of Network Management**, Volume 9 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(494.08 KB) Additional Information: full citation, abstract, index terms

The increasing use of network monitoring and the growth of the Internet and intranets are converging trends that make IP network infrastructures the logical means of delivering network monitoring, using browser -bused clients. Copyright © 1999 John Wiley & Sons, Ltd.

20 Deployment and testbeds: Enhancement of a WLAN-based internet service in Korea

Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(774.23 KB) Additional Information: full citation, abstract, references, index terms

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

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